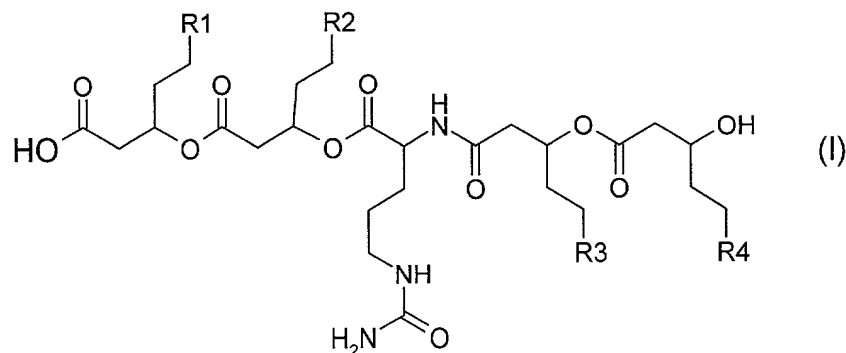


We claim:

1. A compound of the formula (I):



wherein

R₁, R₂, R₃, and R₄ are, independently of one another, alkyl residues with 1 to 6 carbon atoms;

or a physiologically tolerated salt thereof,

or a derivative thereof,

or a stereoisomeric form of:

a compound of formula (I) as described above,

or a physiologically tolerated salt of a compound of formula (I) as described above,

or a derivative of a compound of formula (I) as described above

or a tautomeric form of:

a compound of formula (I) as described above,

or a physiologically tolerated salt of a compound of formula (I) as described above,

or a derivative of a compound of formula (I) as described above.

2. The compound of formula (I) as claimed in claim 1, wherein one, two, three, or all of R_1 to R_4 are butyl residues, and wherein any of the butyl residues may be straight-chain or branched,
or a physiologically tolerated salt thereof,
or a derivative thereof,
or a stereoisomeric form of:

the compound of formula (I) as described above in this claim,
or a physiologically tolerated salt of the compound of formula (I) as described above in this claim,
or a derivative of the compound of formula (I) as described above in this claim,

or a tautomeric form of:

the compound of formula (I) as described above in this claim,
or a physiologically tolerated salt of the compound of formula (I) as described above in this claim,
or a derivative of the compound of formula (I) as described above in this claim.

3. The compound of formula (I) as claimed in claim 1, wherein R_1 to R_4 comprise three butyl residues and one propyl residue, and wherein any of the alkyl residues may be straight-chain or branched,
or a physiologically tolerated salt thereof,
or a derivative thereof,
or a stereoisomeric form of:

the compound of formula (I) as described above in this claim,
or a physiologically tolerated salt of the compound of formula (I) as described above in this claim,
or a derivative of the compound of formula (I) as described above in this claim,

or a tautomeric form of:

the compound of formula (I) as described above in this claim,
or a physiologically tolerated salt of the compound of formula (I) as
described above in this claim,
or a derivative of the compound of formula (I) as described above in
this claim.

4. The compound of formula (I) as claimed in claim 1, wherein R_1 to R_4
comprise: two butyl and two propyl residues, or one butyl, one pentyl, one
ethyl, and one propyl residue, and wherein any of the alkyl residues may be
straight-chain or branched,
or a physiologically tolerated salt thereof,
or a derivative thereof,
or a stereoisomeric form of:

the compound of formula (I) as described above in this claim,
or a physiologically tolerated salt of the compound of formula (I) as
described above in this claim,
or a derivative of the compound of formula (I) as described above in
this claim,

or a tautomeric form of:

the compound of formula (I) as described above in this claim,
or a physiologically tolerated salt of the compound of formula (I) as
described above in this claim,
or a derivative of the compound of formula (I) as described above in
this claim.

5. The compound of formula (I) as claimed in claim 1, wherein R_1 to R_4 comprise
four butyl residues or two butyl, one propyl and one pentyl residue, and
wherein any of the alkyl residues may be straight-chain or branched,
or a physiologically tolerated salt thereof,

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or a derivative thereof,

or a stereoisomeric form of:

the compound of formula (I) as described above in this claim,

or a physiologically tolerated salt of the compound of formula (I) as described above in this claim,

or a derivative of the compound of formula (I) as described above in this claim,

or a tautomeric form of:

the compound of formula (I) as described above in this claim,

or a physiologically tolerated salt of the compound of formula (I) as described above in this claim,

or a derivative of the compound of formula (I) as described above in this claim.

6. A mixture comprising two or more isomers of a compound of formula (I) as claimed in claim 1.
7. A mixture comprising two or more isomers of a compound of formula (I) as claimed in claim 2.
8. A mixture comprising two or more isomers of a compound of formula (I) as claimed in claim 3.
9. A mixture comprising two or more isomers of a compound of formula (I) as claimed in claim 4.
10. A mixture comprising two or more isomers of a compound of formula (I) as claimed in claim 5.

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11. A compound of the formula (I), or a physiologically tolerated salt or derivative thereof, or a stereoisomer or a tautomer thereof, as claimed in claim 1, obtainable by cultivation of Streptomyces sp. ST 101396 (DSM 13309) or by cultivation of one of the variants or mutants of DSM 13309.
12. A compound of the formula (I), or a physiologically tolerated salt or derivative thereof, or a stereoisomer or a tautomer thereof, as claimed in claim 2, obtainable by cultivation of Streptomyces sp. ST 101396 (DSM 13309) or by cultivation of one of the variants or mutants of DSM 13309.
13. A compound of the formula (I), or a physiologically tolerated salt or derivative thereof, or a stereoisomer or a tautomer thereof, as claimed in claim 3, obtainable by cultivation of Streptomyces sp. ST 101396 (DSM 13309) or by cultivation of one of the variants or mutants of DSM 13309.
14. A compound of the formula (I), or a physiologically tolerated salt or derivative thereof, or a stereoisomer or a tautomer thereof, as claimed in claim 4, obtainable by cultivation of Streptomyces sp. ST 101396 (DSM 13309) or by cultivation of one of the variants or mutants of DSM 13309.
15. A compound of the formula (I), or a physiologically tolerated salt or derivative thereof, or a stereoisomer or a tautomer thereof, as claimed in claim 5, obtainable by cultivation of Streptomyces sp. ST 101396 (DSM 13309) or by cultivation of one of the variants or mutants of DSM 13309.
16. A process for the production of a compound of formula (I), or a salt or a derivative thereof, or a stereoisomer or a tautomer thereof, as claimed in claim 1, comprising
cultivating Streptomyces sp. ST 101396 (DSM 13309) or one of its variants or mutants,

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Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25	°C
Time	0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 2361183241434822606848, 4722366482869645213696, 9444732965739290427392, 18889465931478580854784, 37778931862957161709568, 75557863725914323419136, 151115727451828646838272, 302231454903657293676544, 604462909807314587353088, 1208925819614629174706176, 2417851639229258349412352, 4835703278458516698824704, 9671406556917033397649408, 19342813113834066795298816, 38685626227668133590597632, 77371252455336267181195264, 154742504910672534362390528, 309485009821345068724781056, 618970019642690137449562112, 1237940039285380274899124224, 2475880078570760549798248448, 4951760157141521099596496896, 9903520314283042199192993792, 19807040628566084398385987584, 39614081257132168796771975168, 79228162514264337593543950336, 158456325028528675187087900672, 316912650057057350374175801344, 633825300114114700748351602688, 1267650600228229401496703205376, 2535301200456458802993406410752, 5070602400912917605986812821504, 10141204801825835211973625643008, 20282409603651670423947251286016, 40564819207303340847894502572032, 81129638414606681695789005144064, 162259276829213363391578010288128, 324518553658426726783156020576256, 649037107316853453566312041152512, 1298074214633706907132624082305024, 2596148429267413814265248164610048, 5192296858534827628530496329220096, 10384593717069655257060992658440192, 20769187434139310514121985316880384, 41538374868278621028243970633760768, 83076749736557242056487941267521536, 166153499473114484112975882535043072, 332306998946228968225951765070086144, 664613997892457936451903530140172288, 1329227995784915872903807060280344576, 2658455991569831745807614120560689152, 5316911983139663491615228241121378304, 10633823966279326983230456482242756608, 21267647932558653966460912964485513216, 42535295865117307932921825928971026432, 85070591730234615865843651857942052864, 170141183460469231731687303715884105728, 340282366920938463463374607431768211456, 680564733841876926926749214863536422912, 1361129467683753853853498429727072845824, 2722258935367507707706996859454145691648, 5444517870735015415413993718908291383296, 10889035741470030830827987437816582766592, 21778071482940061661655974875633165533184, 43556142965880123323311949751266331066368, 87112285931760246646623899502532662132736, 174224571863520493293247799005065324265472, 348449143727040986586495598010130648530944, 696898287454081973172991196020261297061888, 1393796574908163946345982392040522594123776, 2787593149816327892691964784081045188247552, 5575186299632655785383929568162090376495104, 11150372599265311570767859136324180752990208, 22300745198530623141535718272648361505980416, 44601490397061246283071436545296723011960832, 89202980794122492566142873090593446023921664, 178405961588244985132285746181186892047843328, 356811923176489970264571492362373784095686656, 713623846352979940529142984724747568191373312, 1427247692705959881058285969449495136382746624, 2854495385411919762116571938898990272765493248, 5708990770823839524233143877797980545530986496, 11417981541647679048466287755595961091061972992, 2283596308329	

- | Parameter | Value | Unit |
|-----------------------|---|------|
| Initial concentration | 1.0 | g/L |
| Initial pH | 7.0 | |
| Temperature | 25 | °C |
| Time | 0, 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384, 32768, 65536, 131072, 262144, 524288, 1048576, 2097152, 4194304, 8388608, 16777216, 33554432, 67108864, 134217728, 268435456, 536870912, 1073741824, 2147483648, 4294967296, 8589934592, 17179869184, 34359738368, 68719476736, 137438953472, 274877906944, 549755813888, 1099511627776, 2199023255552, 4398046511104, 8796093022208, 17592186044416, 35184372088832, 70368744177664, 140737488355328, 281474976710656, 562949953421312, 1125899906842624, 2251799813685248, 4503599627370496, 9007199254740992, 18014398509481984, 36028797018963968, 72057594037927936, 144115188075855872, 288230376151711744, 576460752303423488, 1152921504606846976, 2305843009213693952, 4611686018427387904, 9223372036854775808, 18446744073709551616, 36893488147419103232, 73786976294838206464, 147573952589676412928, 295147905179352825856, 590295810358705651712, 1180591620717411303424, 2361183241434822606848, 4722366482869645213696, 9444732965739290427392, 18889465931478580854784, 37778931862957161709568, 75557863725914323419136, 151115727451828646838272, 302231454903657293676544, 604462909807314587353088, 1208925819614629174706176, 2417851639229258349412352, 4835703278458516698824704, 9671406556917033397649408, 19342813113834066795298816, 38685626227668133590597632, 77371252455336267181195264, 154742504910672534362390528, 309485009821345068724781056, 618970019642690137449562112, 1237940039285380274899124224, 2475880078570760549798248448, 4951760157141521099596496896, 9903520314283042199192993792, 19807040628566084398385987584, 39614081257132168796771975168, 79228162514264337593543950336, 158456325028528675187087900672, 316912650057057350374175801344, 633825300114114700748351602688, 1267650600228229401496703205376, 2535301200456458802993406410752, 5070602400912917605986812821504, 10141204801825835211973625643008, 20282409603651670423947251286016, 40564819207303340847894502572032, 81129638414606681695789005144064, 162259276829213363391578010288128, 324518553658426726783156020576256, 649037107316853453566312041152512, 1298074214633706907132624082305024, 2596148429267413814265248164610048, 5192296858534827628530496329220096, 10384593717069655257060992658440192, 20769187434139310514121985316880384, 41538374868278621028243970633760768, 83076749736557242056487941267521536, 166153499473114484112975882535043072, 332306998946228968225951765070086144, 664613997892457936451903530140172288, 1329227995784915872903807060280344576, 2658455991569831745807614120560689152, 5316911983139663491615228241121378304, 10633823966279326983230456482242756608, 21267647932558653966460912964485513216, 42535295865117307932921825928971026432, 85070591730234615865843651857942052864, 170141183460469231731687303715884105728, 340282366920938463463374607431768211456, 680564733841876926926749214863536422912, 1361129467683753853853498429727072845824, 2722258935367507707706996859454145691648, 5444517870735015415413993718908291383296, 10889035741470030830827987437816582766592, 21778071482940061661655974875633165533184, 43556142965880123323311949751266331066368, 87112285931760246646623899502532662132736, 174224571863520493293247799005065324265472, 348449143727040986586495598010130648530944, 696898287454081973172991196020261297061888, 1393796574908163946345982392040522594123776, 2787593149816327892691964784081045188247552, 5575186299632655785383929568162090376495104, 11150372599265311570767859136324180752990208, 22300745198530623141535718272648361505980416, 44601490397061246283071436545296723011960832, 89202980794122492566142873090593446023921664, 178405961588244985132285746181186892047843328, 356811923176489970264571492362373784095686656, 713623846352979940529142984724747568191373312, 1427247692705959881058285969449495136382746624, 2854495385411919762116571938898990272765493248, 5708990770823839524233143877797980545530986496, 11417981541647679048466287755595961091061972992, 2283596308329 | |

claim 1, and suitable excipients and/or carriers, and converting the mixture into a suitable dosage form.

22. Streptomyces species ST 101396 (DSM 13309).

101396-101396